

Elenco delle Pubblicazioni

Giovanni Dimauro

1.1. Pubblicazioni in riviste internazionali dal 2017 a oggi

1. **G. Dimauro**, M. E. Griseta, M. G. Camporeale, F. Clemente, A. Guarini, e R. Maglietta, «An intelligent non-invasive system for automated diagnosis of anemia exploiting a novel dataset», *Artificial Intelligence in Medicine (Q1)*, vol. 136, 2023, doi: 10.1016/j.artmed.2022.102477.
2. **G. Dimauro**, M. G. Camporeale, A. Dipalma, A. Guarini, e R. Maglietta, «Anaemia detection based on sclera and blood vessel colour estimation», *Biomedical Signal Processing and Control (Q1)*, vol. 81, 2023, doi: 10.1016/j.bspc.2022.104489.
3. A. Cardellicchio, F. Solimani, **G. Dimauro**, A. Petrozza, S. Summerer, F. Cellini, V. Renò, Optimizing tomato plant phenotyping detection: boosting YOLOv8 architecture to tackle data complexity, *Computers and Electronics in Agriculture (Q1)*, Volume 218, March 2024, 108728, doi: 10.1016/j.compag.2024.108728
4. Adamo T., Colizzi L., **Dimauro G.**, Ghiani G., Guerriero E., A multimodal tourist trip planner integrating road and pedestrian networks, *Expert Systems with Applications (Q1)*, Volume 237, Part B, 1 March 2024, 121457, doi: 10.1016/j.eswa.2023.121457
5. Cardellicchio, A., Solimani, F., **Dimauro, G.**, Petrozza, A., Summerer, S., Cellini, F., Renò, V., Detection of tomato plant phenotyping traits using YOLOv5-based single stage detectors, *Computers and Electronics in Agriculture (Q1)*, Volume 207, 2023, DOI 10.1016/j.compag.2023.107757.
6. Maglietta, R., Bussola, A., Carlucci, R., Fanizza, C., **Dimauro, G.**, ARIANNA: A novel deep learning-based system for fin contours analysis in individual recognition of dolphins, *Intelligent Systems with Applications (Q1)*, Volume 18, 2023, 200207, DOI 10.1016/j.iswa.2023.200207.
7. **Dimauro G.**, Barbaro N., Camporeale M.G., Fiore V., Gelardi M., Scalera M., DeepCilia: automated, Deep Learning based engine for precise Ciliary Beat Frequency estimation, *Biomedical Signal Processing and Control (Q1)*, Volume 90, April 2024, 105808, doi: 10.1016/j.bspc.2023.105808
8. P. Appiahene, J. W. Asare, E. T. Donkoh, **G. Dimauro**, e R. Maglietta, «Detection of iron deficiency anemia by medical images: a comparative study of machine learning algorithms», *Biodata Mining (Q2)*, vol. 16, fasc. 1, 2023, doi: 10.1186/s13040-023-00319-z.
9. Maglietta, R., Saccotelli, L., Fanizza, C., Telesca, V., **Dimauro, G.**, Causio, S., Lecci, R., Federico, I., Coppini, G., Cipriano, G., Carlucci, R., Environmental variables and machine learning models to predict cetacean abundance in the Central-eastern Mediterranean Sea, *Scientific Reports (Q1)*, 13, 2600 (2023). <https://doi.org/10.1038/s41598-023-29681-y>
10. V. S. Barletta, D. Caivano, L. Colizzi, **G. Dimauro**, e M. Piattini, «Clinical-chatbot AHP evaluation based on “quality in use” of ISO/IEC 25010», *International Journal of Medical Informatics (Q1)*, vol. 170, 2023, doi: 10.1016/j.ijmedinf.2022.104951.
11. Asare, JW, Appiahene, P, Donkoh, ET, **Dimauro, G.**, Iron deficiency anemia detection using machine learning models: A comparative study of fingernails, palm and conjunctiva of the eye images. *Engineering Reports (Q2)*. 2023; e12667. doi: 10.1002/eng2.12667

12. Renò, V.; Maglietta, R.; **Dimauro, G.** Special Issue on Intelligent Systems Applications to Multiple Domains Based on Innovative Signal and Image Processing. *Applied Sciences (Q3)*, 2023, 13, 4373. <https://doi.org/10.3390/app13074373>
13. Solimani, F.; Cardellicchio, A.; Nitti, M.; Lako, A.; **Dimauro, G.**; Renò, V. A Systematic Review of Effective Hardware and Software Factors Affecting High-Throughput Plant Phenotyping. *Information (Q2)* 2023, 14, 214. <https://doi.org/10.3390/info14040214>
14. **G. Dimauro**, V. S. Barletta, C. R. Catacchio, L. Colizzi, R. Maglietta, e M. Ventura, «A systematic mapping study on machine learning techniques for the prediction of CRISPR/Cas9 sgRNA target cleavage», *Computational and Structural Biotechnology Journal (Q1)*, vol. 20, pp. 5813–5823, 2022, doi: 10.1016/j.csbj.2022.10.013.
15. R. Maglietta, R. Carlucci, C. Fanizza, e **G. Dimauro**, «Machine learning and image processing methods for cetacean photo identification: a systematic review», *IEEE Access (Q1)*, vol. 10, pp. 80195–80207, 2022, doi: 10.1109/ACCESS.2022.3195218.
16. V. Renò, E. Stella, C. Patruno, A. Capurso, **G. Dimauro**, e R. Maglietta, «Learning Analytics: Analysis of Methods for Online Assessment», *Applied Sciences (Q3)*, vol. 12, fasc. 18, 2022, doi: 10.3390/app12189296.
17. **G. Dimauro**, V. Bevilacqua, e L. Pecchia, «Bioelectronic technologies and artificial intelligence for medical diagnosis and healthcare», *Electronics (Q2)*, vol. 10, fasc. 11, 2021, doi: 10.3390/electronics10111242.
18. D. Buongiorno, G.D. Casciaro, I. De Feudis, A. Brunetti, L. Carnimeo, **G. Dimauro**, V. Bevilacqua, «Deep Learning for Processing Electromyographic Signals: a Taxonomy-based Survey», *Neurocomputing (Q1)*, 2021, doi: 10.1016/j.neucom.2020.06.139.
19. A. Nannavecchia, F. Girardi, P. R. Fina, M. Scalera, e **G. Dimauro**, «Personal Heart Health Monitoring Based on 1D Convolutional Neural Network», *Journal of Imaging (Q2)*, vol. 7, fasc. 2, 2021, doi: 10.3390/jimaging7020026.
20. **G. Dimauro**, V. Bevilacqua, L. Colizzi, e D. Di Pierro, «TestGraphia, a Software System for the Early Diagnosis of Dysgraphia», *IEEE Access (Q1)*, vol. 8, pp. 19564–19575, 2020, doi: 10.1109/ACCESS.2020.2968367.
21. **G. Dimauro** e L. Simone, «Novel Biased Normalized Cuts Approach for the Automatic Segmentation of the Conjunctiva», *Electronics (Q2)*, vol. 9, fasc. 6, 2020, doi: 10.3390/electronics9060997.
22. **G. Dimauro**, D. Di Pierro, F. Deperte, L. Simone, e P. R. Fina, «A Smartphone-Based Cell Segmentation to Support Nasal Cytology», *Applied Sciences (Q2)*, vol. 10, fasc. 13, 2020, doi: 10.3390/app10134567.
23. **G. Dimauro**, F. Deperte, R. Maglietta, M. Bove, F. La Gioia, V. Renò, L. Simone, M. Gelardi, «A Novel Approach for Biofilm Detection Based on a Convolutional Neural Network», *Electronics (Q2)*, vol. 9, fasc. 6, 2020, doi: 10.3390/electronics9060881.
24. **G. Dimauro**, D. Caivano, P. Di Pilato, A. Dipalma, e M. G. Camporeale, «A Systematic Mapping Study on Research in Anemia Assessment with Non-Invasive Devices», *Applied Sciences (Q2)*, vol. 10, fasc. 14, 2020, doi: 10.3390/app10144804.
25. **G. Dimauro**, S. De Ruvo, F. Di Terlizzi, A. Ruggieri, V. Volpe, L. Colizzi, F. Girardi, «Estimate of anemia with new non-invasive systems—a moment of reflection», *Electronics (Q2)*, vol. 9, fasc. 5, 2020, doi: 10.3390/electronics9050780.
26. **G. Dimauro**, V. Bevilacqua, P. R. Fina, D. Buongiorno, A. Brunetti, S. Latrofa, M. Cassano, M. Gelardi, «Comparative analysis of rhino-cytological specimens with image analysis and deep learning techniques», *Electronics (Q2)*, vol. 9, fasc. 6, pp. 1–19, 2020, doi: 10.3390/electronics9060952.
27. M. Scalera, E. Gentile, P. Plantamura, e **G. Dimauro**, «A Systematic Mapping Study in Cloud for Educational Innovation», *Applied Sciences (Q2)*, vol. 10, fasc. 13, 2020, doi: 10.3390/app10134531.
28. V. Renò, M. Sciancalepore, **G. Dimauro**, R. Maglietta, M. Cassano, e M. Gelardi, «A Novel Approach for the Automatic Estimation of the Ciliated Cell Beating Frequency», *Electronics (Q2)*, vol. 9, fasc. 6, 2020, doi: 10.3390/electronics9061002.
29. V. Reno et al., «Combined color semantics and deep learning for the automatic detection of dolphin dorsal fins», *Electronics (Q2)*, vol. 9, fasc. 5, 2020, doi: 10.3390/electronics9050758.
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35. **G. Dimauro**, A. Guarini, D. Caivano, F. Girardi, C. Pasciolla, e A. Iacobazzi, «Detecting clinical signs of anaemia from digital images of the palpebral conjunctiva», *IEEE Access (Q1)*, vol. 7, pp. 113488–113498, 2019, doi: 10.1109/ACCESS.2019.2932274.
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38. V. Renò, **G. Dimauro**, G. Labate, E. Stella, C. Fanizza, G. Cipriano, R. Carlucci, R. Maglietta, «A SIFT-based software system for the photo-identification of the Risso's dolphin», *Ecological Informatics (Q1)*, vol. 50, pp. 95–101, 2019, doi: 10.1016/j.ecoinf.2019.01.006.
39. M. T. Baldassarre, D. Caivano, **G. Dimauro**, E. Gentile, e G. Visaggio, «Cloud Computing for Education: A Systematic Mapping Study», *IEEE Transactions on Education (Q1)*, vol. 61, fasc. 3, pp. 234–244, 2018, doi: 10.1109/TE.2018.2796558.
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41. **G. Dimauro**, V. Di Nicola, V. Bevilacqua, D. Caivano, e F. Girardi, «Assessment of speech intelligibility in Parkinson's disease using a speech-to-text system», *IEEE Access (Q1)*, vol. 5, pp. 22199–22208, 2017, doi: 10.1109/ACCESS.2017.2762475.

1.2. Selezione di pubblicazioni in riviste internazionali in anni precedenti

42. S. Campanella, **G. Dimauro**, A. Ferrante, D. Impedovo, S. Impedovo, M. G. Lucchese, R. Modugno, G. Pirlo, L. Sarcinella, E. Stasolla, C. A. Trullo, «Engineering e-learning surveys: a new approach», *International Journal of Education and Information Technologies*, vol. 1, iss. 2, pp. 105–113, 2007.
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45. L. Bovino, **G. Dimauro**, S. Impedovo, M. G. Lucchese, R. Modugno, G. Pirlo, A. Salzo, L. Sarcinella, «On the Combination of Abstract-Level Classifiers», *International Journal on Document Analysis and Recognition (Q2)*, vol. 6, fasc. 1, pp. 42–54, 2003.
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51. **G. Dimauro**, S. Impedovo, e G. Pirlo, «A New Technique for Fast Number Comparison in the Residue Number System», *IEEE Transactions on Computers (Q1)*, vol. Vol. 42, n. 5, fasc. 5, pp. 608–612, 1993, doi: 10.1109/12.223680.
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1.3. Pubblicazioni in riviste on-line

51. **G. Dimauro** e M. Gelardi, «Automatic identification and classification of cells present on a rhinocytologic preparation», *The Rhinologist*, vol.3, 2018, ISSN 2531-9299, <https://therhinologist.com/>, https://issuu.com/therhinologist/docs/the_rhinologist_3_35d135bf3702d8

1.4. Pubblicazioni in collezioni internazionali (selezione dal 2018 a oggi)

52. S. Mutti, V. Reno, M. Nitti, **G. Dimauro**, e N. Pedrocchi, «Cloud-Based Visually Aided Mobile Manipulator Kinematic Parameters Calibration», in Lecture Notes in Computer Science (including subseries LNotes in Artificial Intelligence and Lecture Notes in Bioinformatics), Gewerbestrasse 11, Cham, Ch-6330, Switzerland, 2022, vol. 13373, pp. 258–268. doi: 10.1007/978-3-031-13321-3_23.
53. V. Rendò, **G. Dimauro**, C. Fanizza, R. Carlucci, e R. Maglietta, «Computer Vision and Deep Learning Applied to the Photo-identification of Cetaceans», in Measurement for the Sea - Supporting the Marine Environment and the Blue Economy, 2022, pp. 291–308. doi: 10.1007/978-3-030-82024-4_12.
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55. **G. Dimauro**, D. Caivano, M. M. Ciccone, G. Dalena, e F. Girardi, «Classification of Cardiac Tones of Mechanical and Native Mitral Valves», in Lecture Notes in Electrical Engineering, 2021, vol. 725, pp. 211–222. doi: 10.1007/978-3-030-63107-9_17.
56. **G. Dimauro**, F. Girardi, D. Caivano, e L. N. Colizzi, «Personal Health E-Record - Toward an enabling Ambient Assisted Living Technology for communication and information sharing between patients and care providers», in Ambient Assisted Living, 2019, vol. 544. doi: 10.1007/978-3-030-05921-7_39.
57. **G. Dimauro**, F. Girardi, M. Gelardi, V. Bevilacqua, e D. Caivano, «Rhino-Cyt: A System for Supporting the Rhinologist in the Analysis of Nasal Cytology», in Intelligent Computing Theories and Application, 2018, vol. 10955 LNCS, pp. 619–630. doi: 10.1007/978-3-319-95933-7_71.

1.5. Pubblicazioni in libri internazionali dal 2005

58. **G. Dimauro**, «Fourier Transform in Numeral Recognition and Signature Verification», in *Pattern Recognition Machine Intelligence and Biometrics*, Berlin Heidelberg: Springer-Verlag, 2011, pp. 825–859. doi: 10.1007/978-3-642-22407-2_31.
59. **G. Dimauro**, D. Impedovo, S. Impedovo, M.G. Lucchese, R. Modugno, G. Pirlo, L. Sarcinella, «An Experimental Investigation on Web Site Usability», in *Multimedia in Business and Education*, 2005, Leszek Kieltyka Ed., Czestochowa, Poland, 2005, pp. 126-130. (ISBN: 83-88469-28-2). pp. 126–130.
60. S. Impedovo, **G. Dimauro**, A. Ferrante, N. Greco, M.G. Lucchese, G. Pirlo, L. Sarcinella, «Evaluation of Multimedia Systems during their Lifecycle», in *Multimedia in Business and Education*, 2005, Leszek Kieltyka Ed., Czestochowa, Poland, 2005, pp. 126-130. (ISBN: 83-88469-28-2). pp. 143–147.

1.6. Selezione di pubblicazioni in atti di congressi internazionali (dal 2005)

61. S. Mutti and **G. Dimauro**, "Distributed lidar based control for cooperative transportation with multiple autonomous mobile robots," 2023 IEEE International Conference on Industrial Technology (ICIT), Orlando, FL, USA, 2023, pp. 1-5, doi: 10.1109/ICIT58465.2023.10143115.
62. S. Mutti, N. Pedrocchi, **G. Dimauro**, Kinematic-aware UKF-based fast fiducial marker tracker, *Multimodal Sensing and Artificial Intelligence: Technologies and Applications III*, 27 - 29 June 2023, SPIE Optical Metrology. DOI: <http://dx.doi.org/10.1117/12.2674144>
63. Caccioppoli R., Cherubini C., Saccotelli L., Piazzolla D., Scagnoli E., Piermattei V., Marcelli M., De Lucia G.A., Lecci R., Causio S., **Dimauro, G.**, De Franco F., Scuro M., Coppini G., Maglietta R., Validating Temperature Data from Copernicus Marine Service using Satellite-Telemetered Mediterranean Sea Turtles, 1st International Conference of Mediterranean Biodiversity, 13th – 15th September 2023, Lecce, Italy
64. L. Saccotelli, G. Verri, A. De Lorenzis, R. Caccioppoli, C. Cherubini, **G. Dimauro**, G. Coppini, R. Maglietta, Estuary Salinity Prediction Using a Support Vector Machine Based Approach: A Case Study of the Po di Goro Estuary), 2023 IEEE International Workshop on Metrology for the Sea, Valletta, Malta, October 4-6, 2023
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66. **G. Dimauro**, L. Simone, R. Carlucci, C. Fanizza, N. Lomonte, e R. Maglietta, «Automated and non-invasive UAV-based system for the monitoring and the group size estimation of dolphins», in 2022 7th International Conference on Smart and Sustainable Technologies, 2022, pp. 1–8. doi: 10.23919/SpliTech55088.2022.9854266.
67. M. T. Baldassarre, V. S. Barletta, **G. Dimauro**, D. Gigante, A. Pagano, e A. Piccinno, «Supporting Secure Agile Development: the VIS-PRISE Tool», in *AVI 2022: Proceedings of the 2022 International Conference on Advanced Visual Interfaces*, 2022, pp. 1–3. doi: 10.1145/3531073.3534494.
68. Renò, V., Nitti, M., Dibari, P., Summerer, S., Petrozza, A., Cellini, F., **Dimauro, G.**, Maglietta, R., «Automatic stitching and segmentation of roots images for the generation of labelled deep learning-ready data», in *Proceedings of SPIE - The International Society for Optical Engineering*, 2021, vol. 11785. doi: 10.1117/12.2595062.
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70. V. S. Barletta, P. Buono, D. Caivano, **G. Dimauro**, e A. Pontrelli, «Deriving smart city security from the analysis of their technological levels: A case study», in 2021 IEEE International Conference on

- Omni-Layer Intelligent Systems, COINS 2021, 2021, pp. 1–6. doi: 10.1109/COINS51742.2021.9524268.
71. M.T. Baldassarre, V. S. Barletta, D. Caivano, **G. Dimauro**, and A. Piccinno, A Tool for Improving Privacy in Software Development, In Braccini Alessio Maria, Za Stefano (a cura di), ItAIS2021 Conference Proceedings. AIS Electronic Library. ISBN 978-88-87173-06-2
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 73. V. Renò; G. Gala; P. Dibari; R. Carlucci; C. Fanizza; G. Castellano; G. Vessio, **G. Dimauro**, R. Maglietta, «Innovative classification of dolphins using deep neural networks and GrabCut», in Proceedings of the 5th International Conference on Smart and Sustainable Technologies (SpliTech 2020), 2020, pp. 1–5. doi: 10.23919/SpliTech49282.2020.9243820.
 74. **G. Dimauro**, E. Gentile, P. Plantamura, e M. Scalera, «The Flipped Classroom in a University Context: An Academic Experimentation», in Proceedings Canada International Conference on Education (CICE), Toronto, 2019, pp. 71–75. doi: 10.2053/CICE.2019.0020.
 75. V. Renò, C. Fanizza, **G. Dimauro**, V. Telesca, P. Dibari, G. Gala, N. Mosca, G. Cipriano, R. Carlucci, and R. Maglietta "Predictive models for abundance estimation and distribution maps of the striped dolphin *Stenella coeruleoalba* and the bottlenose dolphin *Tursiops truncatus* in the Northern Ionian Sea (North-eastern Central Mediterranean)", Proc. SPIE 11059, Multimodal Sensing: Technologies and Applications, 1105917 (21 June 2019); <https://doi.org/10.1117/12.2527534>
 76. **G. Dimauro**, L. Baldari, D. Caivano, G. Colucci, e F. Girardi, «Automatic Segmentation of Relevant Sections of the Conjunctiva for Non-Invasive Anemia Detection», in Proceedings of 3rd International Conference on Smart and Sustainable Technologies (SpliTech 2018), 2018, pp. 1–5. Disponibile su: <https://ieeexplore.ieee.org/document/8448335/>
 77. V. Bevilacqua; A. Brunetti; G.F. Trotta; **G. Dimauro**; K. Elez; V. Alberotanza, A. Scardapane, «A Novel Approach for Hepatocellular Carcinoma Detection and Classification Based on Triphasic CT Protocol», 2017 IEEE Congress on Evolutionary Computation (CEC), Donostia, Spain, 2017, pp. 1856-1863, doi: 10.1109/CEC.2017.7969527.
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